

Amendments to the Claims:

This listing of claims replaces all prior listings of claims in the application.

Listing of Claims

1. (Currently amended) A fluid dynamic bearing motor comprising:
~~a base having a bore hole;~~
a liner ~~secured within the bore~~ having a longitudinal wall and further having a
bottom that is contiguous with the wall extending radially inward from the
wall hole, wherein the liner includes a first end, and a second end, wherein
the second end includes an inner surface having a hole formed therethrough;
a rotor assembly having a shaft that is rotatably supported ~~partially disposed~~ within
the liner, ~~the shaft configured to rotate on the surface of the second end of~~
~~the liner and relative to the liner;~~
~~a fluid dynamic bearing disposed between the liner and shaft; and~~
~~a recirculation channel disposed outside the liner, the recirculation channel for~~
~~recirculating lubricating fluid during relative rotation of the shaft and the~~
~~liner.~~
2. (Canceled)
3. (Currently amended) The fluid dynamic bearing motor of claim 25 ~~[[1]]~~, wherein
the ~~base includes the recirculation channel, the~~ recirculation channel is formed in the base
extending along the ~~the~~ [[a]] wall ~~of the bore hole~~ and along the ~~the~~ [[a]] bottom ~~of the bore hole~~.
4. (Currently amended) The fluid dynamic bearing motor of claim 3, further
comprising a capillary seal ~~having a reservoir, the capillary seal defined between the~~ [[a]]
wall and ~~of the liner and a tapered section of the shaft.~~

5. (Currently amended) The fluid dynamic bearing motor of claim 4, wherein the recirculation channel fluidly connects the fluid dynamic bearing via the hole in the bottom to the capillary seal ~~is configured to pump bearing fluid through the hole in the bottom surface of the liner into the recirculation channel and through the recirculation channel into the reservoir.~~

6. (Currently amended) The fluid dynamic bearing motor of claim 25 ~~[[1]]~~, wherein the fluid dynamic bearing comprises a journal bearing operably supporting the shaft in rotation against the wall and a thrust bearing operably supporting the shaft in rotation against the bottom.

7. (Currently amended) The fluid dynamic bearing motor of claim 6, wherein the shaft comprises a patterned feature that pumps fluid in the fluid dynamic bearing toward the hole ~~journal bearing is configured asymmetrically to pump bearing fluid towards the bottom of the liner.~~

8. (Currently amended) The fluid dynamic bearing motor of claim 7, wherein the patterned feature ~~journal bearing~~ includes at least two grooved bearing surfaces.

9. (Currently amended) The fluid dynamic bearing motor of claim 23 ~~[[1]]~~, wherein the base is at least one of forged, molded, or casted.

10. (Currently amended) The fluid dynamic bearing motor of claim 23 ~~[[1]]~~, wherein the base is at least one of machined, forged, molded, or casted.

11. (Original) The fluid dynamic bearing motor of claim 1, wherein the rotor assembly includes a cold-worked hub.

12. (Original) The fluid dynamic bearing motor of claim 11, wherein the cold-worked hub is at least one of drawn, hydroformed, spun, molded, casted, forged, or stamped.

13. (Original) The fluid dynamic bearing motor of claim 11, wherein the cold-worked hub further includes: a flange; and a stepped cylindrical sidewall extending from the flange and circumscribing at least a portion of the base.

14. (Currently amended) The fluid dynamic bearing motor of claim 11, further comprising a magnet attached to the cold-worked hub and a stator coupled to the base, the magnet and the stator being configured to generate a ~~downward-acting~~ preloading force on the cold-worked hub.

15-20. (Canceled)

21. (Currently amended) The fluid dynamic bearing motor of claim 25 ~~[[1]]~~, wherein the liner defines an open end ~~first end has an opening~~ and the recirculation channel fluidly connects the fluid dynamic bearing via the hole with the open end ~~extends from the hole formed through the second end of the liner to the opening of the liner.~~

22. (Canceled)

23. (New) The fluid dynamic bearing motor of claim 1 further comprising a base defining a bore, wherein the liner is secured within the bore.

24. (New) The fluid dynamic bearing of claim 1 further comprising a fluid dynamic bearing disposed between the liner and the shaft.

25. (New) The fluid dynamic bearing of claim 24 wherein the bottom defines a hole therethrough, the fluid dynamic bearing further comprising a recirculation channel disposed outside the liner and in fluid communication with the fluid dynamic bearing via the hole in the bottom.